

Docket No.: 113019.159US1



PATENT/OFFICIAL

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PCT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

George L. WRIGHT, Jr., et al.

Serial No. 10/505,367

Filed: August 23, 2004

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: Group Art Unit: Not yet assigned
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: Examiner: Not yet assigned

For: PROTEIN BIOMARKERS THAT DISTINGUISH PROSTATE CANCER FROM
NON-MALIGNANT CELLS

INFORMATION DISCLOSURE STATEMENT

Honorable Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with the provisions of 37 C.F.R. 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the documents listed on the attached form PTO-1449. It is respectfully requested that the documents be expressly considered during the prosecution of this application, and that the documents be made of record therein and appear among the "References Cited" on any patent to issue therefrom. Copies of any cited U.S. Patents and U.S. Patent Publications are not being submitted in accordance with 37 CFR 1.98(a)(2)(i).

This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits. No certification or fee is required.

In accordance with 37 C.F.R. § 1.97(g) and (h), the filing of this IDS should not be construed as a representation that a search had been made or that information cited is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56 (b), or that any cited document listed or attached is (or constitutes) prior art. Unless otherwise indicated, the date of publication indicated for an item is taken from the face of the item, and Applicant reserves the right to prove that the date of publication is in fact different.

No fee is believed to be required. The Commissioner is authorized to charge any deficiency in any fees pursuant to 37 CFR § 1.17 associated with this communication and to credit any excess payment to Deposit Account No. 08-0219.

Respectfully submitted,

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Date: NOVEMBER 9, 2005

INFORMATION DISCLOSURE
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(PTO-1449)

ATTY. DCK
113019.159US1SERIAL NO.
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George L. WRIGHT, Jr. et al.FILING DATE
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U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	4,366,241	12/28/1982	Tom, et al.			08/17/1980
	4,376,110	03/08/1983	David, et al.			08/04/1980
	4,517,288	05/14/1985	Giegel, et al.			01/23/1981
	4,837,168	06/06/1989	De Jaeger, et al.			12/15/1986
	5,719,060	02/17/1998	Hutchens, et al.			06/07/1995
	5,792,664	08/11/1998	Chait, et al.			06/07/1995
	5,843,644	12/01/1998	Liotta, et al.			03/01/1994
	5,843,657	12/01/1998	Liotta, et al.			10/10/1995
	6,225,047	05/01/2001	Hutchens, et al.			06/19/1998

FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
	93/24834	12/09/1993	WO			X	
	00/70648	11/23/2000	WO			X	
	01/25791	04/12/2001	WO			X	
	01/57273	08/09/2001	WO			X	
	01/71360	09/27/2001	WO			X	


OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	David J. Asai, Methods in Cell Biology: Antibodies in Cell Biology, Vol. 37 (1993)
	Kohler and Milstein, Continuous Cultures of Fused Cells Secreting Antibody of Preddefined Specificity, <i>Nature</i> 256:495-498 (1975).
	Anderson, et al. Remington's Pharmaceutical Sciences (1985).
	Goding, Monoclonal Antibodies: Principles and Practice, Second Edition (1986).
	Fahrlander, et al., Amplifying DNA Probe Signals: A "Christmas Tree" Approach, <i>Bio/Technology</i> 6:1165 (1988)
	Harlow, et al., Antibodies; a laboratory manual (1988).
	Lichtenstein, et al., Mechanism of Target Cytolysis by Peptide Defensins, <i>J. Immunol.</i> 140:2686-2694 (1988).
	Peter Walker, Cambridge Dictionary of Science and Technology, (1988).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

<p align="center">INFORMATION DISCLOSURE CITATION IN AN APPLICATION</p> <p align="center">(PTO-1449)</p> 		ATTY. DOCKET NO. 113019.159US1	SERIAL NO. 10/505,367
		APPLICANT George L. WRIGHT, Jr. et al.	
		FILING DATE August 23, 2004	GROUP Not yet assigned
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)			
	Rutgers, et al., Hepatitis B Surface Antigen As Carrier Matrix For The Repetitive Epitope Of The Circumsporozoite Protein Of <i>Plasmodium Falciparum</i> , Bio/Technology, Vol. 6, p. 1065-1070 (1988).		
	Ausubel, et al., Current Protocols in Molecular Biology, (1989).		
	Huse et al., Generation of a Large Combinatorial Library of the Immunoglobulin Recertoire in Phage Lambda, <i>Science</i> 246:1275-1281 (1989).		
	Sambrook, et al., Molecular Cloning: A Laboratory Manual, Second Edition (1989).		
	Ward et al., Binding Activities of a Repertoire of Single Immunoglobulin Variable Domains Secreted from <i>Escherichai Coli</i> , <i>Nature</i> 341:544-546 (1989).		
	Coligan, et al., Current Protocols in Immunology, Vol. 1 (1991).		
	Stites and Terr, Basic and Clinical Immunology, 7 th ed. (1991).		
	Singleton, et al., Dictionary of Microbiology and Molecular Biology, 2 nd . Ed. (1994).		
	Bélanger, et al., Molecular Mass and Carbohydrate Structure of Prostate Specific Antigen: Studies for Establishment of an International PSA Standard, <i>Prostate</i> , 27:187-197 (1995).		
	J. R. Birch, et al., Monoclonal Antibodies, Principles and Application (1995).		
	Emmert-Buck, et al., Laser Capture Microdissection, <i>Science</i> , 274:998-1001 (1996)		
	Zhao, et al. Widespread expression of beta-defensin hDB-1 in Human Secretory Glands and Epithelial Cells, <i>FEBS Letts.</i> , 396:319-322 (1996).		
	Mizukawa et al., Presence of Defensin in Epithelial Langerhans Cells Adjacent to Oral Carcinomas and Precancerous Lesions, <i>Anticancer Res.</i> , 19:2969-2972 (1999).		
	Stege, et al., Tissue PSA from Fine-Needle Biopsies of Prostatic Carcinoma as Related to Serum PSA, Clinical Stage, Cytological Grade, and DNA Ploidy, <i>Prostate</i> , 38:183-188 (1999).		
	Wang, et al. Phosphorylation/Dephosphorylation of Androgen Receptor as a Determinant of Androgen Agonistic or Antagonistic Activity, <i>Biochem. Biophys. Res. Commun.</i> 259:21-28 (1999).		
	Wright Jr, et al., Proteinchip Surface Enhanced Laser Desorption/Ionization (SELDI) Mass Spectrometry: A Novel Protein Biochip Technology for Detection of Prostate Cancer Biomarkers in Complex Protein Mixtures, <i>Prostate Cancer and Prostate Diseases</i> 2:264-276 (1999).		
	Yang, et al. B-Defensin: Linking Innate and Adaptive Immunity Through Dendritic and T Cell CCR6, <i>Science</i> 286:525-528 (1999).		
	A. K. Jain, Statistical Pattern Recognition: A Review, IEEE Transactions on Pattern Analysis and Machine Intelligence, Vol. 22, No. 1 (2000).		
	Ayabe, et al., Secretion of Mircorbicidal α -Defensins by Intestinal Paneth Cells in Response to Bacteria, <i>Nat. Immunol.</i> , 1:113-118 (2000).		
	Cazares, et al., Discovery of Prostate Cancer Biomarkers from Laser Capture Microdissected (LCM) Cells Using Innovative Proteinchip SELDI Mass Spectroscopy, <i>Proceedings of the American Association for Cancer Research</i> , Vol. 41, p. 851 (2000).		
EXAMINER		DATE CONSIDERED	

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August 23, 2004GROUP
Not yet assigned

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	Merchant, et al., Recent Advancements in Surface-Enhanced Laser Desorption/Ionization-Time of Flight-Mass Spectrometry, <i>Electrophoresis</i> 21:1164-1177 (2000).
	Mizukawa, et al., Immunohistochemical Staining of Human α -Defensin-1 (HNP-1), in the Submandibular Glands of Patients with Oral Carcinomas, <i>Anticancer Res.</i> , 20:1125-1128 (2000).
	Paweletz, et al., Rapid Protein Display Profiling of Cancer Progression Directly from Human Tissue Using a Protein Biochip, <i>Drug Development Research</i> , 49:34-42 (2000).
	Weir, et al., Correlation of Serum Prostate Specific Antigen and Quantitative Immunogistochemistry, <i>J. Urol.</i> , 163:1739-1742 (2000).
	Xiao, et al., Generation of a Baculovirus Recombinant Prostate-Specific Membrane Antigen and Its Use in the Development of a Novel Protein Biochip Quantitative Immunoassay, <i>Protein Expression and Purification</i> , 19: 12-21 (2000).
	Adam, et al., Proteomic Approaches to Biomarker Discovery in Prostate and Bladder Cancers, <i>Proteomics</i> , 1:1264-1270 (2001).
	Alcaez, et al. High-Grade Prostate Intraepithelial Neoplasia Shares Cytogenetic Alterations with Invasive Prostate Cancer, <i>Prostate</i> 47:29-35 (2001).
	Gee, et al., Phosphorylation of ERK1/2 Mitogen-Activated Protein Kinase is Associated with Poor Response to Anti-Hormonal Therapy and Decreased Patient Survival in Clinical Breast Cancer <i>Int. J. Cancer</i> 95:247-254 (2001).
	Park et al., Prostate Cancer Detection in Men with Prior High Grade Prostatic Intraepithelial Neoplasia or Atypical Prostate Biopsy, <i>J. Urol.</i> 165:1409-1414 (2001).
	Paweletz, et al. New Technologies for Biomarker Analysis of Prostate Cancer Progression: Laser Capture Microdissection and Tissue Proteomics, <i>Urology</i> 57:160-163 (2001).
	Rocchi, et al., Expression of Adrenomedullin and Peptide Amidation Activity in Human Prostate Cancer and in Human Prostate Cancer Cell Lines, <i>Cancer Res.</i> 61:1196-1206 (2001).
	Srinivas, et al., Proteomics in Early Detection of Cancer, <i>Clinical Chemistry</i> , Vol. 47, No. 10 p. 1901-1911 (2001)
	Vlahou, et al., Development of a Novel Proteomic Approach for the Detection of Transitional Cell Carcinoma of the Bladder in Urine, <i>Am. J. Pathol.</i> , 158:1491-1502 (2001)
	Xiao et al., Quantitation of Serum Prostate-specific Membrane Antigen by a Novel Protein Biochip Immunoassay Discriminates Benign from malignant Prostate Disease, <i>Cancer Research</i> 62:6029-6033 (2001).
	PCT International Search Report for International Application No. PCT/US2003/05042 mailed June 3, 2004.
	Supplemental Partial European Search Report for International Application No. EP 03 74 3162 mailed February 16, 2005.
EXAMINER	DATE CONSIDERED

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